

MODIS IOT Weekly Report

Mission Operations Days: 2000/357 to 2000/364

December 22, 2000 20:00:00 GMT to December 29, 2000 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode

MODIS is in B-side Science Mode

Blackbody	A Off; B On	Nominal
Calibration Electronics	A Off; B On	Nominal
Control Processor	A Off; B On	Nominal
Door: Nadir	Unlatched, open	Nominal
Space View	Unlatched, open	Nominal
Solar Diffuser	Unlatched, closed	Nominal
FDDI Formatter	A Off; B On	Nominal
FDDI Port	A On; B Off	Nominal
FIFO Memory	1 & 2 Off; 3 & 4 On	Nominal
Format Processor	A Off; B On	Nominal
Power Supply: 1	Off	Nominal
2	On	Nominal
PV FPAs: VIS	A Off; B On	Nominal
NIR	A Off; B On	Nominal
SMIR	A Off; B On	Nominal
LWIR	A Off; B On	Nominal
PC FPA: LWIR	A Off; B On	Nominal
Radiative Cooler:		
Outgas Heaters	All Off	Nominal
LWIR FPA Heater	On	Nominal
SMIR FPA Heater	Off	Nominal
Scan Assembly	A Off; B On	Nominal
SDSM	Off	Nominal
SRCA	Off	Nominal
Survival Heaters: PS1	Enabled	Nominal
PS2	Enabled	Nominal
Timing Generator	A Off; B On	Nominal
Flight Software	Rev BD + 2 patches	Nominal
Inhibit Ids Set	None	Nominal
TMONs enabled	68	Nominal

This Week's Completed MODIS Activities:

Friday, December 22, 2000

None

Saturday, December 23, 2000
None

Sunday, December 24, 2000
None

Monday, December 25, 2000
None

Tuesday, December 26, 2000
None

Wednesday, December 27, 2000
None

Thursday, December 28, 2000
363/21:00:45 ATC OA-16: SDSM SCREENED
363/22:39:38 ATC OA-15: SDSM OPEN

Friday, December 29, 2000
None

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Friday, December 29, 2000
None

Saturday, December 30, 2000
None

Sunday, December 31, 2000
None

Monday, January 1, 2001
None

Tuesday, January 2, 2001
002/20:00:20 ATC Set Blackbody to 270K

Wednesday, January 3, 2001

003/14:00:00 ATC Set Blackbody to 280K
003/18:00:00 ATC Set Blackbody to 285K
003/21:00:00 ATC Set Blackbody to 290K

Thursday, January 4, 2001

004/01:00:00 ATC Set Blackbody to 295K
004/01:00:30 ATC Set Blackbody duty cycle to FULL
004/03:00:00 ATC Set Blackbody to 300K
004/05:00:00 ATC Set Blackbody to 315K
004/08:00:00 ATC Set Blackbody to 270K
004/08:00:30 ATC Set Blackbody duty cycle to THIRD

Friday, January 5, 2001

005/04:00:00 ATC Set Blackbody to 290K

Maneuvers:

Drag makeup maneuver 017/19:38:00 to 017/21:08:00.

MODIS Anomalies:

No formatter anomalies have been detected since switching to B-side science operations. The MODIS IOT is continuing to monitor changes with the radiative cooler temperatures and focal plane power.

General Instrument Comments:

MODIS is in Science Mode on the B-side with the SVD and NAD open, operating with the Formatter Resolution Flight Software Patches (FRFSP). No new events have been witnessed by the FRFSP since the B-Side Transition on DOY 304.

MODIS Telemetry Trends:

The Radiative Cooler intermediate stage temperature has slowly been increasing since approximately day 240. During this time the LWIR focal plane heater margin has been decreasing. The IOT is continuing to trend these telemetry mnemonics.

Non-MODIS Significant Events:

None.

Limited Life Item Status:

SRCA 10W Lamp #1: 176.3 of 500 hours

SRCA 10W Lamp #2: 137.6 of 500 hours

SRCA 10W Lamp #3: 146.8 of 500 hours

SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 556.3 of 4000 hours

SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1489 of 3022 Movements

Nadir Aperture Door: 532 of 1316 Movements

Space View Door: 437 of 1316 Movements